Volvo Trucks. Driving Progress

VOLVO VNL SERIES

PREMIUM WITH A PURPOSE

SEE THE DIFFERENCE EVERY DIFFERENCE MAKES.

Fuel Efficiency: Aerodynamics and powertrain power savings.

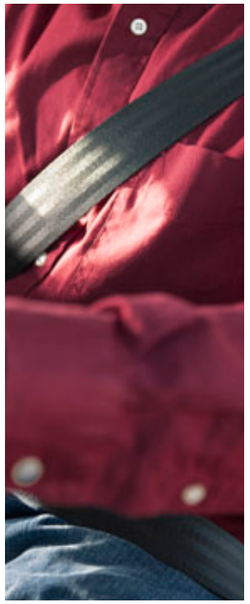
Explore the features of the refined VNL series that help you save more on fuel.

pg. 04

Driver Productivity: Space, features, comfort.

See how the VNL series can help you keep drivers comfortable and productive.

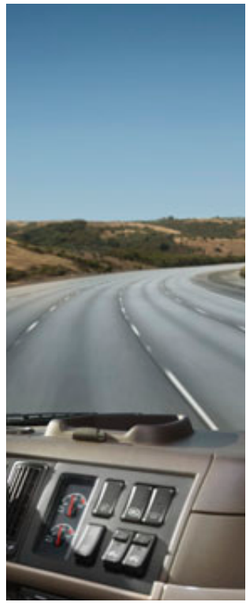
pg. 20



Safety: Industry-leading protection.

Learn how Volvo's legendary commitment to safety helps protect your most valuable asset—your drivers.

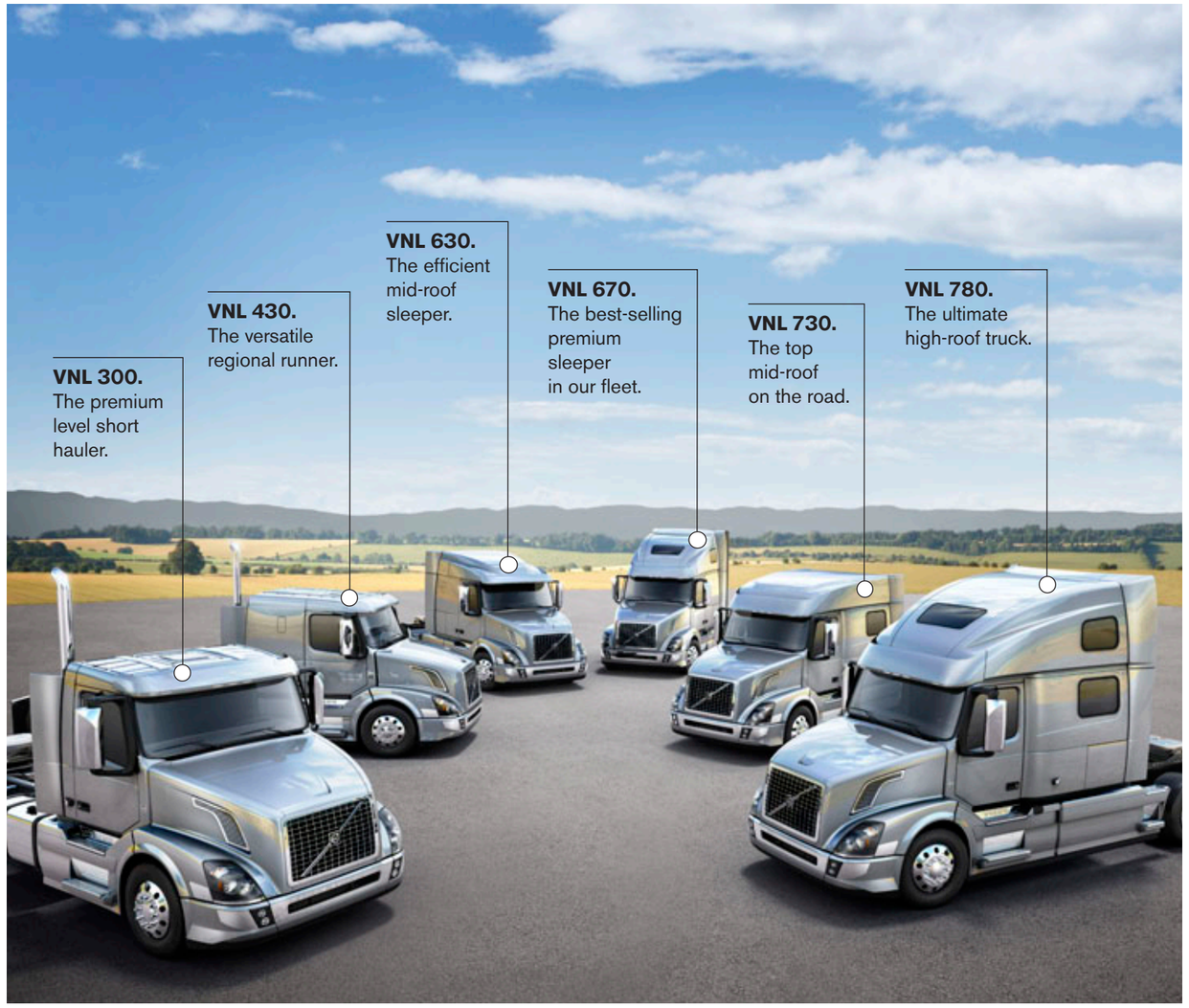
pg. 28



Uptime: Know the road ahead.

Discover the power to know the road ahead with a suite of services that lets you keep wheels turning and money in your pocket.

pg. 34



WHY VNL?

We've updated the newly refined VNL series with our latest advancements to improve aerodynamics, fuel efficiency, and performance. Our selection of premium sleeper and daycab models cover a wide range of highway applications and offer drivers unsurpassed driveability, safety, and comfort—all while helping deliver big savings to your bottom line. So if you're looking for a premium truck that puts a premium on profitability, look no further. The only question that's left is, **which VNL is right for your business?**

FUEL EFFICIENCY

Innovation with purpose—to save you money.

At Volvo, we believe fuel efficiency is a vital part of our commitment to your business and ultimately, to the planet we all share. That's why we're constantly challenging ourselves to find new and improved ways to make Volvo trucks some of the most fuel-efficient trucks on the road. Fuel efficiency is more than a single feature, it's a combination of customized solutions working together in perfect harmony. The result is fuel-efficiency custom built for your business' needs.

Advanced Aerodynamics:

For over a decade, Volvo trucks have worn some of the most advanced aerodynamic features in the industry. Not only do they give our trucks a striking, modern look, our aerodynamics features can make a big difference to your bottom line.

eXceptional Efficiency (XE):

Volvo's award-winning XE offering is a custom fuel-efficiency solution based on the specific needs of your business. And because XE gets smarter every year, more and more businesses across North America are seeing the big difference XE can make.

I-Shift:

Our innovative automated manual transmission makes every driver more fuel-efficient by ensuring the right shift at the right time. Standard in every Volvo truck, I-Shift's intelligent electronics constantly monitor factors like road grade, speed, weight, and engine load to help keep the truck in the most fuel-efficient gear possible.

Volvo Engines:

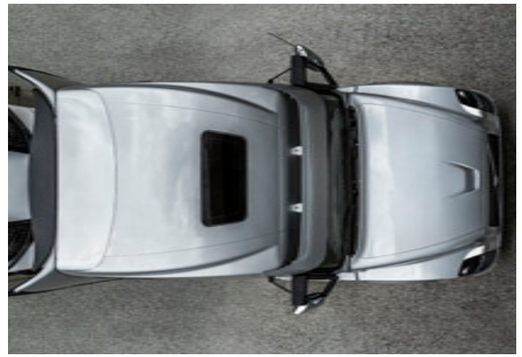
Perfectly matched to I-Shift, Volvo offers a range of engines designed to meet your specific needs. With three different sizes available providing up to 600 hp and 2050 lb-ft of torque, you can save fuel by precisely matching engine to application with the confidence that you'll always have enough power to get the job done.

Sleek design. Solid savings.

Did you know the latest VNL update features our most aerodynamic and fuel-efficient package yet? In fact, it offers up to 3.5% fuel savings* when paired with an aero trailer compared to the previous package.

*Includes redesigned I-Shift's transmission cooler. See page 15.

Effortlessly splits the wind.
VNL series trucks feature a redesigned aero bumper and lower airflow deflector, which quickly attach air to the truck and efficiently channel airflow rearward.



Low turbulence is high priority.
A redesigned roof air deflector better complements the aerodynamic roof fairing and adjustable trim tab. Together, they help keep the air attached and smooth out costly turbulence between the cab and trailer.

Keeps air in the fast lane.
On the VNL 630 and 670, new flared chassis fairings optimize airflow past the drive wheels and tractor-trailer gap.

Mirrors that put savings in focus.
The driver sees comforting wide angle views. Your fleet sees fuel savings. The aerodynamic design of our mirror assembly reduces turbulence by attaching air more quickly to the tractor.

Controlling air doesn't stop on the outside.
Our new "smart" fan clutch increases fuel efficiency by up to 0.7% by only running the fan when extra cooling is necessary, varying fan speed based on cooling needs.

Learn more: **volvotrucks.us.com/VNL2016**

Extreme fuel efficiency. Great driveability.

The award-winning eXceptional Efficiency (XE) package pushes Volvo's commitment to fuel-efficiency and reliability even further.

XE isn't a single fuel-saving feature like aerodynamic mirrors, or side fairings, it's a completely customized solution that perfectly matches your vehicle and powertrain settings to the needs of your business. It all starts with choosing the right Volvo engine and matching it with I-Shift; then, we help you choose the optimum efficiency package based on your application. Together, these factors can help you save up to an additional 0.2 mpg or more. **That can mean savings of as much as $2,000 per year, per truck.**

You tell us what you haul and where you haul it, and we'll tell you how XE can help your trucks get the job done while helping your business save big on fuel.

Learn more: **volvotrucks.us.com/VNL2016**

XE continues to evolve.

The XE package gets smarter every year, and is now available in a new package designed exclusively for liquid tanker, flatbed, and bulk haul applications.

XE Adaptive Gearing.

The first drivetrain in the industry to use rear axle load to change the driveline based on whether the vehicle is loaded or unloaded. It gives you two transmissions in one: the performance of a direct drive when loaded, and a downspeeding overdrive when light.

A wider sweet spot.

In some applications, XE packages help you save fuel by widening the sweet spot rpm range of the engine. Traditional drivelines achieve peak fuel efficiency between 1300-1500 rpm. But through Volvo's use of downspeeding, XE widens the range to 1050-1500 rpm. For every 100 rpm of downspeeding, fuel efficiency is improved by approximately 1.5%. Since the Volvo XE13 package downspeeds the engine by 200 rpm or more, you'll realize a total fuel efficiency increase of up to 3%.

Choose your torque.

The latest XE13 package is now available with your choice of different engine torque management software. XE Economy lowers engine torque in the starting gears, maximizing tire and driveline reliability while providing ample power and torque to get the job done at cruise speed. XE High Torque allows maximum torque in all gears, for those who prefer a faster transition to cruise speed.

Learn more: **volvotrucks.us.com/VNL2016**

An automated manual transmission with digital intelligence.

Volvo's innovative I-Shift transmission combines the ease of an automatic, the efficiency of a manual, and the intelligence to handle any road and every load. The secret lies in an electronic control unit that shifts perfectly, every time. So I-Shift not only keeps fuel costs down, it helps slow driveline wear, extends transmission life, and lowers maintenance costs.

Makes every driver fuel efficient.

I-Shift uses intelligent electronics to continuously monitor grade, speed, weight, and engine load, shifting when necessary or holding a gear—whichever saves more fuel. So regardless of experience or training, I-Shift helps every driver become more fuel-efficient.

Eases your mind and your left foot.

When you drive an I-Shift, you'll never want to deal with a clutch again. I-Shift lets you concentrate on the task at hand—delivering freight—not on what gear you're in. It's easy to use and always ready with the right gear, so missed shifts and sore knees are a thing of the past. With I-Shift, just sit back, get comfortable, and concentrate on your driving.

Brains, brawn, and value.

I-Shift has a 2,323 lb-ft torque rating, so it's compatible with every engine in our lineup. But did you know that I-Shift can also increase your truck's resale value? If your Volvo truck was purchased with a lower engine power rating, a simple software flash can uprate it to the highest power rating for its displacement—without having to replace the transmission.

Design changes that save fuel.

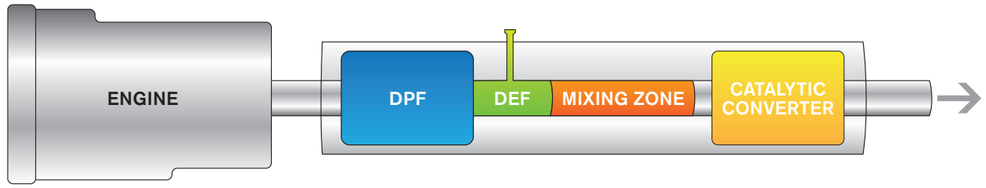
I-Shift's redesigned transmission cooler optimizes fluid temperature in cold and warm climates, improving fuel efficiency by up to 0.5%.

Bigger hills, fewer fuel stops.

Volvo engines offer an impressive mix of power, efficiency, and value. All are 2014 GHG-certified and have been optimized to help you save up to 3% on fuel compared to previous Volvo engines. And with up to 600 hp and 2,050 lb-ft of torque, Volvo engines are built to handle the biggest loads and the toughest roads.

Lower fuel costs, no special driver training.

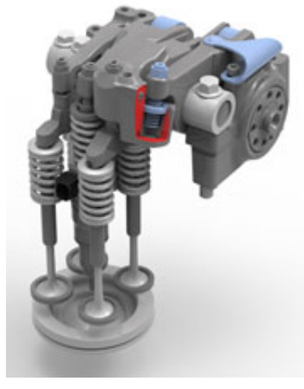
Volvo's SCR "No Regen Engine" leads the industry in using fully passive regeneration to deliver near-zero emissions of NOx and particulates. And because this process happens automatically in most highway applications, your drivers don't need any special training—saving your fleet both time and money.



Driving near-zero emissions.

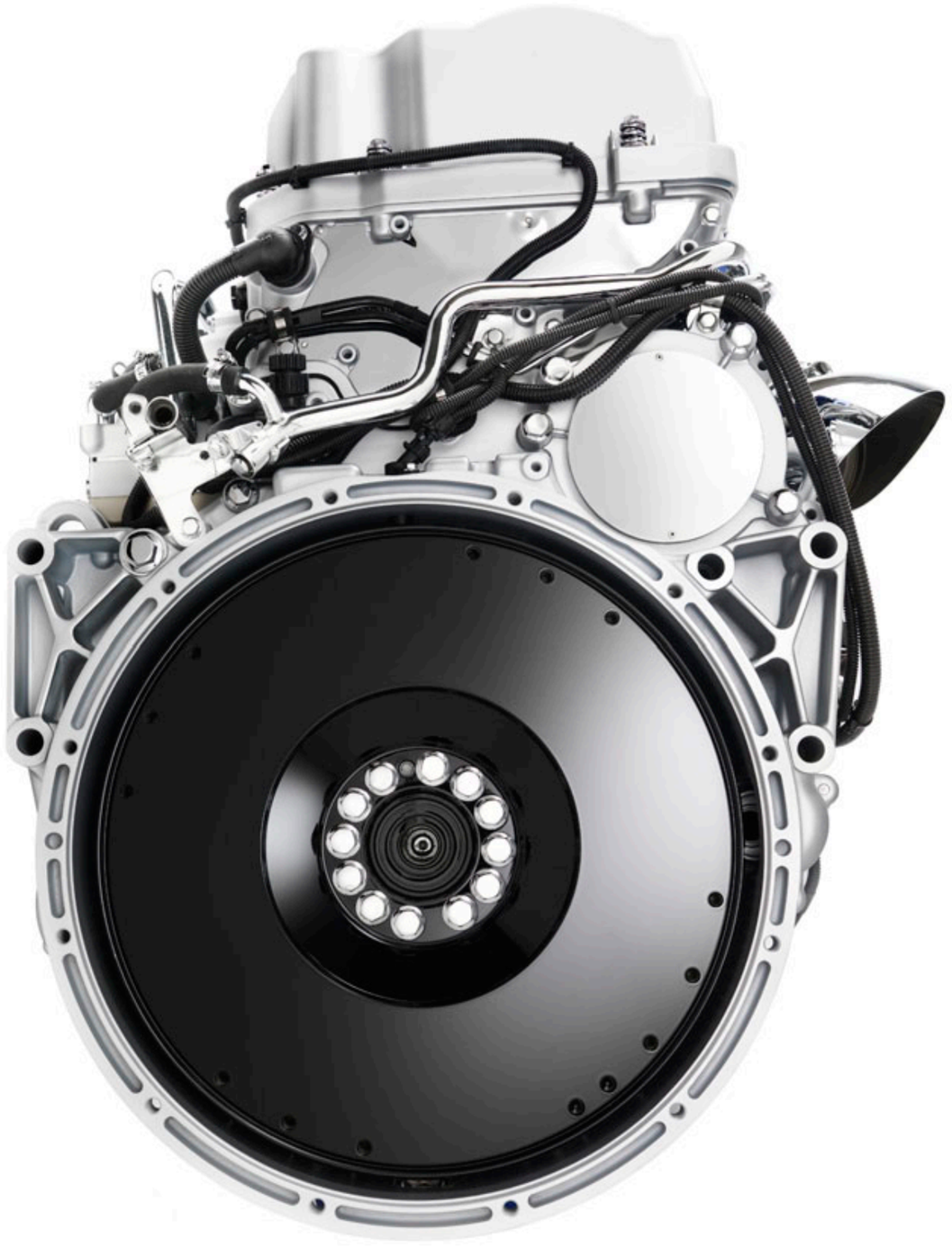
Volvo's Selective Catalytic Reduction (SCR) system is a superior solution to the EPA's 2010 emissions standards, not to mention a fuel- and cost-saving innovation for your fleet.

Here's how it works: high-NOx/particulate exhaust flows from the engine to Volvo's diesel particulate filter (DPF), where much of the exhausts particulate is removed. Next, before the exhaust reaches the catalytic converter, diesel exhaust fluid (DEF) is mixed in. The DEF and catalytic converter change the harmful nitrogen oxides into harmless nitrogen and water vapor, and the truck's NOx emissions register at near-zero levels. DEF allows the engine to use less exhaust gas recirculation (EGR), and maintain higher oxygen levels for better combustion.



Powerful and precise engine braking.

The Intelligent Volvo Engine Brake (I-VEB) is an enhanced engine braking system that gives drivers precise control over engine braking, and saves the truck's brakes for when they're needed most. The D11, D13, and D16 engines use a Variable Geometry Turbocharger (VGT), which, thanks to intelligent software, "supercharges" the I-VEB system. The result is phenomenal retarding horsepower at low rpm, where the engine spends most of its time and where braking is needed most. An impressive 600 hp retardation is available at 2200 rpm with the D16, 500 hp at 2200 rpm with the D13, and 410 hp with the D11.



Efficiency runs in the family.

Volvo D11
355-405 hp,
1250-1550 lb-ft.

The Volvo D11 is a fuel efficient, lightweight engine designed to improve reliability and minimize cost of operation. Five power ratings are available in the range from 355 to 405 hp. The D11 delivers performance competitive with larger engines with an impressive 405 hp and 1,550 lb-ft torque. It's also a lighter solution for maximizing fuel economy in regional, bulk, less-than-truckload, and distribution applications.

Volvo D13
375-500 hp,
1450-1850 lb-ft.

The Volvo D13's efficiency, power, and light weight improves operating costs, while meeting the new 2015 EPA GHG emissions standards. Fourteen power ratings are available, from 375 to 500 hp.

Three XE, six Eco-Torque, and three Dual-Torque ratings provide "dual-personality" torque output for customers who desire the fuel economy of lower torque, with the strong performance of higher torque. Available in VNL daycabs and sleepers, it's the perfect choice for line-haul, regional, and vocational operations.

Volvo D16
500-600 hp,
1650-2050 lb-ft.

Volvo's ultra-reliable D16 delivers the power and torque needed to move large payloads with ease, even on steep grades. Five power ratings are available from 500 to 600 hp, including a heavy-spec XE16 package rated for combination weights up to 143,000 pounds—designed specifically for the North American heavy long-combination vehicle market. Available in VNL daycabs and sleepers, it's the perfect choice for line-haul and heavy-haul operations.

Learn more: **volvotrucks.us.com/VNL2016**

DRIVER PRODUCTIVITY

Open space. Packed with features.

A comfortable driver is a productive driver. So the VNL series starts with a solid chassis, smooth-riding air suspension and precise, automotive-like handling. The well-insulated cab offers great visibility, adjustable and supportive seats, and a wraparound dashboard designed to keep all controls within reach.

Like riding on air.

Volvo cab air suspensions and outboard mounted air springs, shocks, and stabilizer bar help the VNL series give drivers a smoother ride.

A quiet place to work.

A thick layer of insulation combined with some of the quietest running engines in the industry keeps the cab comfortable and quiet.

Comfort comes standard.

With back and lateral support, front and rear cushion adjustment, fore/aft isolation, 7-inch fore-and-aft slide, and power air lumbar support, the VNL standard seats offer drivers an incredibly comfortable ride.

Everything important, all in one place.

With the centrally located instrument cluster with Driver Information Display (DID), a quick look is all it takes. Analog gauges like fuel, speed, and rpm complement the digital DID's optional Performance Bonus Display.

Easy in and out.

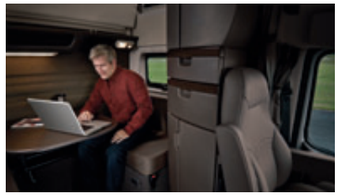
Doors are 3+ feet wide and 4+ feet high, and open a full 70 degrees for ease of access and ergonomically placed grab handles prove the safest and most secure way in and way out of the cab.

Connect and enjoy.

Expandable audio systems let you connect with iPhone, Bluetooth, USB, and AUX.

Learn more: **volvotrucks.us.com/VNL2016**

Less a sleeper, more a home.



When the day is done, drivers need a place to relax and recharge. That's why we designed the VNL series sleepers with those little touches that make a VNL truck feel like home away from home.

The flat-roof VNL 430 sleeper maximizes its 118 cubic feet of space. And with a full-sized bunk in an efficient, 42-inch sleeper, it's a cozy spot to rest up after a long day.

With room for two bunks, the 61-inch sleeper in the VNL 630 and VNL 670 have ample room to rest. And with a lower bunk that opens up to a large workstation, it's a perfect place to work, eat, and kick back.

For the ultimate in over-the-road comfort, look to the VNL 730 and VNL 780. From a double-size, 53-inch bunk in the VNL 730, to a full-size, 42-inch-wide bed and a large, 371 cubic-foot living space in the VNL 780, these 77-inch sleepers are incredibly spacious and comfortable.

Our premium sleepers reward drivers with some of the industry's best features.

Prepare to be entertained.

A mount for a TV lets you enjoy entertainment from the comfort of your bunk. Why go out when you can stay in?

Don't get up.

Adjust bunk heating and cooling and the audio system from the sleeper control panel. Need to be noticed? Just press the "panic" button to call attention to your vehicle.

Snacks and refreshments available.

The cabinets that can be configured to hold a refrigerator and microwave, a hot meal or a cold drink can be available any time.

Learn more: **volvotrucks.us.com/VNL2016**

Customize your ride.

VNL interiors are some of the industry's best places to work—comfortable and well designed, yet tough enough to handle the most demanding applications.

Each of the three interior trim levels offer many color and material combinations to choose from. And all three trim levels can be enhanced further with premium Wheat Mordura, Dark Brown Cordura, and your choice of leather seating options in Espresso Brown or Sahara Tan.

Choice

The standard trim level, Choice offers dark or light interior colors, with lighter Lennox Ivory or darker Espresso Brown seats.

Touring

The mid-level trim level, Touring offers Dark Zebrano accents, and the dark Touring fabric on the seats.

Limited

The premium trim level, Limited includes eye-catching Light Barcelona accents, and the seats feature the elegant Limited fabric.

Learn more: **volvotrucks.us.com/VNL2016**

SAFETY

Volvo is safety.

Since 1927, our brand has used safety as the guiding principle for everything we build. We were the first company to introduce 3-point safety belts as a standard feature, and to this day are the only company to provide driver-side airbags standard in every truck we make.

Volvo's commitment to safety protects your business by putting the well-being of drivers—your most valuable asset—first. Intelligent design that maximizes comfort and visibility combined with advanced safety technology helps drivers avoid or minimize accidents, keeping them safe while reducing cargo loss, downtime, and accident-related insurance costs.

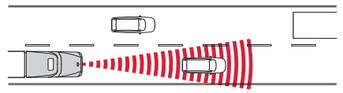
Industry-leading safety. Just in case.

To make sure that our trucks are the safest rigs on the road, we combine advanced engineering with active and passive safety systems.

Active Safety Technology.

Volvo Enhanced Stability Technology (VEST).

Losing control, jack-knifing, and rolling over are three of the most dangerous incidents a driver can face. Standard on all VNL tractors, Volvo Enhanced Stability Technology, or VEST, continually monitors driver inputs and normal driving parameters. When VEST detects that the truck is dangerously close to an event such as a rollover, the system automatically reduces engine torque and selectively applies the necessary braking to help get the truck back on course.



Volvo Enhanced Cruise (VEC).

Being surrounded by smaller, more nimble vehicles can be stressful. Volvo Enhanced Cruise (VEC) adds peace of mind by helping the driver maintain a safe following distance. The front bumper-mounted radar monitors vehicles driving in front of the truck, and if they get too close, audio and visual warnings alert the driver. If the truck continues to close on the vehicle, VEC can automatically dethrottle the engine and apply the truck's service brakes to help prevent a collision or lessen its impact.

Lane Departure Warning.

This safety system uses a windshield-mounted camera to track road markings. If the truck begins to drift, audio and visual alerts warn the driver to get back into the correct lane.

Passive Safety Technology.

Intelligent impact protection.

Built to pass the demanding Swedish Cab Safety Test, our high-strength steel (HSS) cabs have the industry's highest strength-to-weight ratio, and are designed to absorb as much of a crash's energy as possible to protect the driver. To further protect occupants, the steering column collapses and the engine and transmission drop down and away from the driver.

Airbag and seat belts come standard.

Volvo is the only Class 8 manufacturer to put a driver's side airbag standard in every truck. What else did you expect from the inventors of the 3-point safety belt?

UPTIME

There is no time for downtime.

You know better than anyone that every second of uptime equates to saved revenue, increased efficiency, and new opportunities. That's why you need a transport solutions partner that offers innovative solutions to keep trucks on the road and money in your pocket.

Volvo Trucks Uptime Services is a unique suite of products and services designed to give you unprecedented control over fleet operations. Maximize uptime, increase maintenance efficiency, and protect your trucks with protection plans customized to your needs. Nothing can slow your business down when you **know the road ahead.**

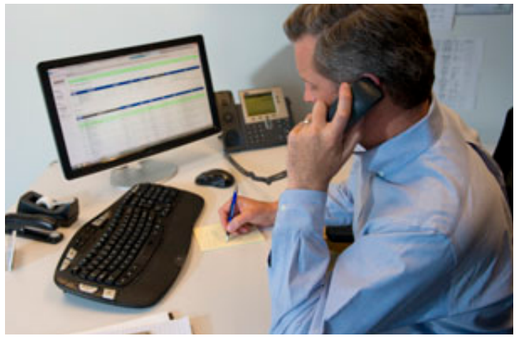
Ready for whatever lies ahead.

Remote Diagnostics.

Stay ahead of the road. Remote Diagnostics is more than technology—it's a revolutionary new way to avoid breakdowns and expedite repairs. Standard in every VNL model, Remote Diagnostics helps you avoid unexpected downtime by offering a range of unique benefits, including immediate communication of actionable information; proactive diagnostic and repair planning assistance; and streamlined service procedures.

The Volvo Uptime Center.

Real people. Real solutions. Real fast. The Volvo Uptime Center offers around-the-clock assistance anywhere in Canada and the United States. Within minutes, your driver is connected to a member of Volvo Action Service, a team of highly trained uptime experts who can quickly manage service, schedule repairs, or tackle any other issue that happens on the road.



ASIST service management platform.

Everything you need, all in one place. ASIST is a simple, web-based tool that lets you monitor vehicle status, receive electronic estimates, approve repairs, issue purchase orders, and communicate directly with your dealer—regardless of your truck's location.

Ride Assured.

For best results, plan ahead. Ride Assured plans improve vehicle uptime, increase productivity, and provide a peace of mind by making sure all required maintenance is done efficiently and done right. Choose from a full menu of services and get access to Genuine Volvo Parts, warranty adjustments, service programs, and performance updates at pre-planned maintenance intervals.

Volvo Protection Plans.

The road can be unpredictable. Always know you're covered. Take the worry and stress out of unforeseen repairs and effectively manage costs over the life of your truck with a Volvo Protection Plan. We offer a variety of plans that can be customized to your needs—you chose the length and extent of coverage that best suits your specific application.

Learn more: **volvotrucks.us.com/VNL2016**

	VNL 300	VNL 430	VNL 630
Cabs/ Sleepers	Day Cab/ Long Hood	42” Flat-Roof Sleeper/ Long Hood	61” Mid-Roof Sleeper/ Long Hood
Applications	Short Haul/ Regional Haul	Regional Haul/ Long Haul	Regional Haul/ Long Haul
Engines	Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2	Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2	Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2
Transmissions	**Standard:** I-Shift 12 speed **Optional:** Eaton Fuller Manuals UltraShift® PLUS Advantage™ Automated	**Standard:** I-Shift 12 speed **Optional:** Eaton Fuller Manuals UltraShift® PLUS Advantage™ Automated	**Standard:** I-Shift 12 speed **Optional:** Eaton Fuller Manuals UltraShift® PLUS Advantage™ Automated

VNL 670	VNL 730	VNL 780
61” Tall Sleeper/ Long Hood	Premium 77” Mid-Roof Sleeper/ Long Hood	Ultimate 77” Tall Sleeper/ Long Hood
Long Haul	Long Haul	Long Haul
Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2	Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2	Volvo D11 355-405 hp 1250-1550 lb-ft torque Volvo D13 375-500 hp 1450-1850 lb-ft torque Volvo D16 500-600 hp 1650-2050 lb-ft torque Cummins ISX15 1450-1850 lb-ft torque Straight Torque SmartTorque2
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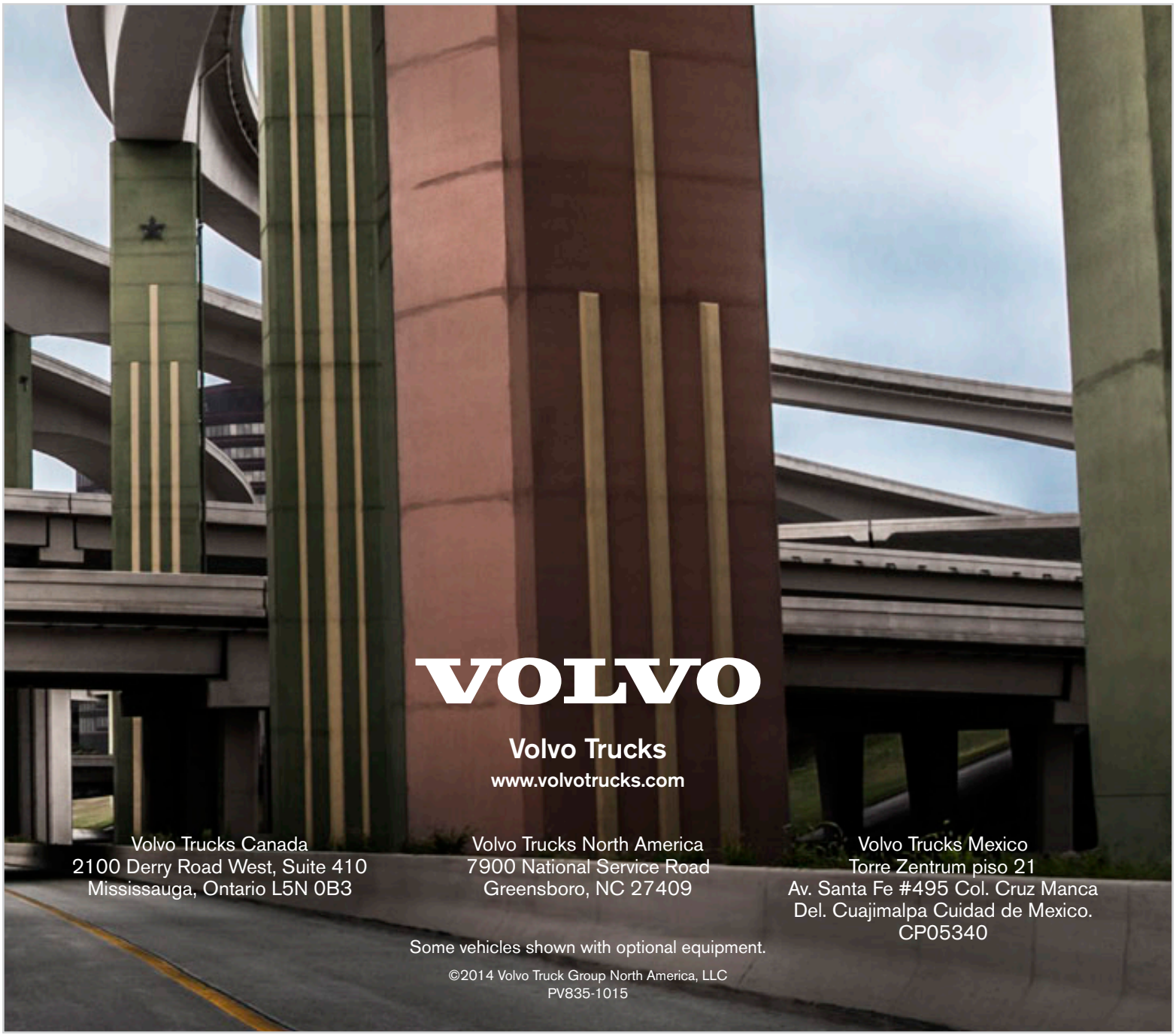

VOLVO

Volvo Trucks

www.volvotrucks.com

Volvo Trucks Canada
2100 Derry Road West, Suite 410
Mississauga, Ontario L5N 0B3

Volvo Trucks North America
7900 National Service Road
Greensboro, NC 27409

Volvo Trucks Mexico
Torre Zentrum piso 21
Av. Santa Fe #495 Col. Cruz Manca
Del. Cuajimalpa Cuidad de Mexico.
CP05340

Some vehicles shown with optional equipment.

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